

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A method of aligning a plurality of physical channels, comprising:

aligning first and second uplink physical channels based on a timing offset; and

transmitting said first and second channels over an uplink at a time instant different than that of a third uplink physical channel, such that none of subframes of said first and second channels transmitted in the uplink ~~do not~~ overlap with uplink transmission of a subframe of said third channel.
2. (Previously Presented) The method of claim 1, wherein said aligning step further includes synchronizing subframe boundaries of said subframes of said first and second uplink physical channels so that said subframes are transmitted in the uplink at a same time instant.
3. (Cancelled)
4. (Previously Presented) The method of claim 1, wherein

said first and second physical channels include a control channel configured to support enhanced uplink (EU) services and a data channel configured to support enhanced uplink (EU) services, and

said third physical channel is an uplink control channel configured to support high speed downlink packet access (HSPDA) services.

5. (Previously Presented) The method of claim 4, wherein said timing offset prevents said control channel configured to support enhanced uplink (EU) services from being transmitted in the uplink at the same time as said uplink control channel configured to support high speed downlink packet access (HSPDA) services.

6. (Original) The method of claim 1, wherein said timing offset is a timing offset to align subframes of a shared control channel (SCCH) with a start of a plurality of subframes of a common control channel that is used as a timing reference for all physical channels received in the downlink or physical channels to be transmitted in the uplink.

7. (Original) The method of claim 6, wherein the SCCH is configured to provide control signaling in the downlink to support enhanced uplink (EU) services.

8. (Currently Amended) A method of multiplexing a plurality of physical channels for uplink transmission, comprising:

aligning first and second physical channels based on a timing offset;

transmitting said first and second channels in the uplink at a time instant different than a time of uplink transmission for a third physical channel, such that none of subframes of said first and second channels transmitted in the uplink ~~do not~~ overlap with uplink transmission of a subframe of said third channel; and

code multiplexing said first and second physical channels with additional physical channels other than said third physical channel at said different time instant to generate a code-multiplexed signal to be used for uplink transmission.

9. (Previously Presented) The method of claim 8, wherein said aligning step includes synchronizing subframe boundaries of subframes of said first and second uplink physical channels so that said subframes are transmitted in the uplink at the same time instant.

10. (Cancelled)

11. (Previously Presented) The method of claim 8, wherein
said first and second physical channels include a control channel configured to support enhanced uplink (EU) services and a data channel configured to support enhanced uplink (EU) services, and

said third physical channel is an uplink control channel configured to support high speed downlink packet access (HSPDA) services.

12. (Previously Presented) The method of claim 11, wherein said timing offset prevents said control channel configured to support enhanced uplink (EU) services from being transmitted on the uplink at the same time as said uplink control channel configured to support high speed downlink packet access (HSPDA) services.

13. (Original) The method of claim 8, wherein said timing offset aligns a subframe of a shared control channel (SCCH) with a start of a plurality of subframes of a common control

channel that is used as a timing reference for all the physical channels received in the downlink or physical channels to be transmitted in the uplink.

14. (Original) The method of claim 13, wherein the SCCH is configured to provide control signaling in the downlink to support enhanced uplink (EU) services.

15. (Currently Amended) A method for scheduling transmission of a plurality of physical channels in the uplink, comprising:

assigning timing offset information to a user for aligning first and second uplink physical channels; and

transmitting said first and second channels in the uplink at a time instant different than a time of uplink transmission for a third uplink physical channel, such that none of subframes of said first and second channels transmitted in the uplink ~~do not~~ overlap with uplink transmission of a subframe of said third channel.

16. (Previously Presented) The method of claim 15, wherein said first and second physical channels include a control channel configured to support enhanced uplink (EU) services and a data channel configured to support enhanced uplink (EU) services, and

said third physical channel is an uplink control channel configured to support high speed downlink packet access (HSPDA) services.

17. (Previously Presented) The method of claim 16, wherein said timing offset prevents said control channel configured to support enhanced uplink (EU) services from being transmitted

in the uplink at the same time as said uplink control channel configured to support high speed downlink packet access (HSPDA) services.

18. (Original) The method of claim 15, wherein said timing offset aligns a subframe of a shared control channel (SCCH) with a start of a plurality of subframes of a common control channel that is used as a timing reference for all the physical channels received in the downlink or physical channels to be transmitted in the uplink.

19. (Original) The method of claim 18, wherein the SCCH is configured to provide control signaling in the downlink to support enhanced uplink (EU) services.

20. (Currently Amended) A method of avoiding an increase in peak-to-average power ratio if multiplexing a plurality of physical channels for uplink transmission, comprising:

aligning first and second physical channels based on a timing offset;

multiplexing said first and second channels; and

transmitting said first and second channels in the uplink at a time instant different than a time of uplink transmission for a third physical channel, such that none of subframes of said first and second channels transmitted in the uplink ~~do not~~ overlap with uplink transmission of a subframe of said third channel.